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(71) Applicant (for all designated States except US): **DOW CORNING CORPORATION** [US/US]; 2200 West Salzburg Road, Midland, MI 48686-0994 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHIM, Anne, Katja** [DK/US]; 5405 Drake, Midland, MI 48640 (US). **TABLER, Raymond** [US/US]; 5703 Woodberry Court, Midland, MI 48640 (US). **TASCARELLA, David** [US/US]; 3720 Collingwood Street, Midland, MI 48642 (US).

(74) Agent: **DECESARE, James, L.**; IP Dept. - Mail CO1232, Dow Corning Corporation, 2200 West Salzburg Road, Midland, MI 48686-0994 (US).

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(54) Title: A MECHANICAL INVERSION PROCESS FOR MAKING SILICONE OIL-IN-WATER EMULSIONS

(57) Abstract: High viscosity silicone compositions such as silicone gums, silicone rubbers, silicone elastomers, and silicone resins, are emulsified by mechanical inversion in which silicone water-in-oil (W/O) emulsions are inverted to silicone oil-in-water (O/W) emulsions. Silicone resins with a viscosity of about one billion centistoke (mm²/s), i.e., 1,000,000,000 centistoke (mm²/s) have been emulsified. These silicone O/W emulsions are useful in personal care products where they are capable of providing improved aesthetics. They are also useful in products used in the paper industry and medical industry. The silicone O/W emulsions are easier to handle than the high viscosity silicone in the emulsion, which enables the emulsions to mixed with other emulsions or other water-soluble ingredients.



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